

winding order indicated in Figure 5. As a result, the stator winding is assembled as shown in Figure 4. The stator winding is rolled and inserted into the stator core. The "discontinuity" exists at the slots #1, #2, #3, #4, #5, and #6. The stator winding continuously extends in a circumferential direction at the slots other than the slots #1, #2, #3, #4, #5, and #6a. In Figure 4, only 6 slots out of 36 slots relate to the "discontinuity". Therefore, the slots #1, #2, #3, #4, #5, and #6a are called "irregular slots" and the slots #7-#36 are called "regular slots". Thus, the irregular slots and the regular slots are shown in Figure 4 and the features recited in claims 1, 6 and 8 are shown in the Figures. Accordingly, Applicant respectfully requests the objection to the drawings be withdrawn.

The Office Action advises that claims 4 and 5 recite duplicate features. The objection to the claims is respectfully traversed.

Claim 5 is amended to remove the alleged duplicative subject matter. Accordingly, Applicant respectfully requests the objection to the claims be withdrawn.

The Office Action rejects claims 1-15 under 35 U.S.C. §112, first paragraph. As claims 3 and 11 are canceled the rejection of those claims is moot. Applicant respectfully traverses rejection of claims 1, 2, 4-10 and 12-15.

The specification provides the support for the subject matter of the rejected claims throughout. Specifically, support for the recited features of "regular slots", "irregular slots" and "discontinuity of the stator winding ..." may be found in the specification at least in page 2, line 8-page 3, line 1; page 5, line 10-page 6, line 28; Figs. 4-8 and the accompanying text.

Claims 1-15 are rejected under 35 U.S.C. §112, second paragraph. As claims 3 and 11 are canceled, the rejection of those claims is moot. Applicant respectfully traverses the rejection of claims 1, 2, 4-10 and 12-15.

As stated above, support for the terms "regular slots", "irregular slots", and "discontinuity of the stator ..." may be found throughout the specification and at least at

Figs. 4-8 and the accompanying text for the figures. Accordingly, Applicant respectfully requests the rejection of claims 1-15 under 35 U.S.C. §112, first and second paragraphs, be withdrawn.

Claims 1-12 and 15 are rejected under 35 U.S.C. §102(b) as anticipated by U.S. Patent 2,399,931 to Lamborn. As claims 3 and 11 are canceled, the rejection of those claims is moot. Applicant respectfully traverses the rejection of claims 1, 2, 4-10, 12 and 15.

Applicant asserts that claim 1 is amended to incorporate the features recited in claims 3 and 11. Thus, Lamborn does not disclose all of the features recited in the amended claims. Rather, Lamborn merely shows a dynamo machine that has two opposed magnetic poles and windings. Further, Lamborn does not disclose irregular slots located side-by-side as recited in the claims. Accordingly, Applicant respectfully requests the rejection of claims 1-12 and 15 under 35 U.S.C. §102(b) be withdrawn.

The Office Action rejects claims 13 and 14 under 35 U.S.C. §103(a) as unpatentable over Lamborn in view of U.S. Patent 5,886,444 to Enomoto et al. (hereinafter "Enomoto"). The rejection is respectfully traversed.

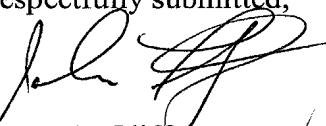
Applicant asserts that claims 13 and 14 are allowable for at least their dependency on independent claim 1, as well as for the additional features recited therein. For example, Enomoto merely discloses a plurality of coils mounted on the stator core. However, Enomoto does not disclose the regular slots, irregular slots and discontinuity of the stator winding at a region where the regular slots are located, as recited in the claims. Furthermore, Enomoto merely discloses partial coils that are stacked in the slots. Thus, Enomoto fails to teach or suggest all of the features recited in the claims. Accordingly, Applicant respectfully requests the rejection of claims 13 and 14 under 35 U.S.C. §103(a) be withdrawn.

In view of the foregoing, reconsideration of the application is requested. It is submitted that the claims as presented herein patentably distinguish over the applied

references and fully meet the requirements of 35 U.S.C. §112. Accordingly, allowance of claims 1, 2, 4-10, 12-15 and 21 is respectfully solicited.

Should the Examiner believe that anything further would be desirable in order to place this application in better condition for allowance, the Examiner is invited to contact Applicant's undersigned representative at the telephone number listed below.

Respectfully submitted,



James A. Oliff
Registration No. 27,075

John W. Fitzpatrick
Registration No. 41,018

JAO:JWF/mmc

Attachment:
Appendix

Date: October 1, 2002

OLIFF & BERRIDGE, PLC
P.O. Box 19928
Alexandria, Virginia 22320
Telephone: (703) 836-6400

DEPOSIT ACCOUNT USE
AUTHORIZATION
Please grant any extension
necessary for entry;
Charge any fee due to our
Deposit Account No. 15-0461

APPENDIX

Changes to Specification:

Page 5, lines 10-23:

The stator winding 23 is a three-phase winding that is made of a plurality of conductors 230. Each of the phase windings has a pair of coils provided by conductors 230, respectively. Each of conductors 230 is a continuous wire and is wound to provide an individual coil wound~~rounded~~ at least one time around the stator core 22. Six conductors 230 provide six coils X1, X2, Y1, Y2, Z1 and Z2 for the three-phase winding. Each of the coils is formed as the wave form winding. The coils X1 and X2 are shifted 180 degrees electric angle for providing an X-phase winding of the three-phase winding. The coil X1 has a beginning lead X11 and an end lead X12. The coils Y1 and Y2, and Z1 and Z2 are arranged in the same manner. The coils X1, X2, Y1, Y2, Z1 and Z2 are connected into the Y-connection as shown in FIG. 10.

Changes to Claims:

Claims 3, 11 and 16-20 are canceled.

Claims 21 is added.

The following is a marked-up version of the amended claims 1 and 5:

1. (Amended) A rotary electric machine comprising:

a rotor; and

a stator having a stator core with a plurality of slots and a stator winding,

wherein:

the slots include a plurality of regular slots located side by side and a plurality of irregular slots located side by side, and

the stator winding has a plurality of continuous wires wound at least one time around the stator core, the continuous wire having the stator winding has a plurality of in-slot

portions accommodated in the slots and coil ends, the in-slot portions and the coil ends being arranged to provide a discontinuity of the stator winding at a region where the irregular slots are located.

5. (Amended) The rotary electric machine according to claim 1, wherein the stator winding has output leads extending beyond the coil ends, the output leads being located on a region where the ~~regular~~irregular slots are located.